

CLAIMS

1 1. Method for allowing a client application (16) to establish, in a client network
2 (10), a first connection having a first security level, directly with a first port (1) of a server
3 application (17) hosted in a server machine (13) linked to a server network (11), in order to
4 send messages (30) addressed to the server machine (13), said messages (30) passing from
5 the client network (10) to the server network (11) through a network layer (CR) of a gateway
6 machine (9), characterized in that it comprises:
7 - a first step that creates a second port (3) in the gateway machine (9);
8 - a second step that orders the network layer (CR) of the gateway machine (9) to
9 reroute to the second port (3) any message sent to the first port (1), addressed to the server
10 machine (13);
11 - a third step that listens to the second port (3);
12 - a fourth step that generates, in the gateway machine (9), a thread for establishing
13 said first connection when the third step detects in the second port (3) a request to establish
14 said first connection.

1 2. Method according to claim 1, characterized in that it comprises:
2 - a fifth step that defines a third port (2) of the server application (17) for receiving at
3 least one of the messages (30) with a second security level; and in that said thread comprises;
4 - a first phase that establishes said first connection with a first security level in a first
5 interface associated with the second port (3) and with said request;
6 - a second phase that establishes a second connection with a second level of security
7 in a second interface to the third port (2) in the server machine (13);
8 - a third phase that writes with the second security level in the second interface any
9 message read in the first interface with the first security level;
10 - a fourth phase that writes with the first security level in the first interface any
11 message read in the second interface with the second security level.

1 3. Method according to claim 2, characterized in that it comprises:
2 - a sixth step that orders the network layer (CR) of the gateway machine (9) to delete
3 any message sent to the third port (2).

1 4. Method according to claim 1 or 2, characterized in that the first and second
2 steps are executed automatically by a first process of the gateway machine (9) and in that said
3 first process generates a second process that executes the third and the fourth step.

1 5. Method according to claim 4, characterized in that the first, second and sixth
2 steps are executed automatically by a first process of the gateway machine (9) and in that said
3 first process generates a second process that executes the third and fourth steps.

6. Method for allowing a client application (16) to establish in a client network (10) a first connection having a first security level, directly with a first port (1) of a server application (17) hosted in a server machine (13) linked to a server network (11), in order to send messages (30) addressed to the server machine (13), said messages (30) passing from the client network (10) to the server network (11) through a network layer (CR) of a gateway machine (9), characterized in that it consists of activating, in the gateway machine, a secure application proxy that reroutes the messages from the first connection, in a way that is transparent for the client application, in order to establish a second connection having a second security level with the server application, said second connection being unknown to said client application.